

## DNA Sequence of FUS01/02

ATGGAAAAAC AAAATATTGC GGTATACTT GCGCGCCAAA ACTCCAAAGG  
 ATTGCCATTA AAAAATCTCC GGAAAATGAA TGGCATATCA TTACTTGGTC  
 ATACAATTAA TGCTGCTATA TCATCAAAGT GTTTTGACCG CATAATTGTT  
 TCGACTGATG GCGGGTTAAT TGCAGAAGAA GCTAAAAATT TCGGTGTCGA  
 AGTCGTCCTA CGCCCTGCAG AGCTGGCCTC CGATACAGCC AGCTCTATTT  
 CAGGTGTAAT ACATGCTTTA GAAACAATTG GCAGTAATTC CGGCACAGTA  
 ACCCTATTAC AACCAACCAG TCCATTACGC ACAGGGGCTC ATATTCGTGA  
 AGCTTTTTTCT CTATTTGATG AGAAAATAAA AGGATCCGTT GTCTCTGCAT  
 GCCCAATGGA GCATCATCCA CTAAAAACCC TGCTTCAAAT CAATAATGGC  
 GAATATGCCC CCATGCGCCA TCTAAGCGAT TTGGAGCAGC CTCGCCAACA  
 ATTACCTCAG GCATTTAGGC CTAATGGTGC AATTTACATT AATGATACTG  
 CTTCACTAAT TGCAAATAAT TGTTTTTTTA TCGCTCCAAC CAAACTTTAT  
 ATTATGTCTC ATCAAGACTC TATCGATATT GATACTGAGC TTGATTTACA  
 ACAGGCAGAA AACATTCTTA ATCACAAGGA AAGCGGTGGC GGAATTCTGT  
 GlyGly GlyIleLeuS  
 erHisGlyIle  
 EcoRI  
CGCATGGAAT TCTGGGCTTG AAAAAGGCTT GTTTGACCGT GTTGTGTTTG  
 ATTGTTTTTT GTTTCGGGAT ATTTTATACA TTTGACCGGG TAAATCATGG  
 GGAAAGGAAT GCGGTTTCCC TGCTGAAGGA CAAACTCTTC AATGAAGAGG  
 GGGAACCGGT CAATCTGATT TTCTGCTATA CCATATTGCA GATGAAGGTG  
 GCGGAAAGGA TTATGGCGCA GCATCCGGGG GAGCGGTTTT ATGTGGTGCT  
 GATGTCTGAA AACAGGAATG AAAAATACGA TTATTATTTT AAGCAGATAA  
 AGGATAAGGC GGAGCGGGCG TATTTTTTCC ACCTGCCCTA CGGTTTGAAC  
 AAATCGTTTA ATTTCAATCC GACGATGGCG GAGCTGAAGG TAAAGTCGAT  
 GCTGCTGCCG AAAGTCAAGC GGATTTATTT GGCAAGTTTG GAAAAAGTCA  
 GCATTGCCGC CTTTTTGAGC ACTTACCCGG ATGCGGAAAT CAAAACCTTT  
 GACGACGGGA CAGGCAATTT AATTCAAAGC AGCAGCTATT TGGGCGATGA  
 GTTTTCTGTA AACGGGACGA TCAAGCGGAA TTTTGCCCGG ATGATGATCG  
 GAGATTGGAG CATCGCCAAA ACCCGTAATG CTTCCGACGA GCATTACACG

## EXHIBIT B

ATATTCAAGG GTTTGAAAAA CATTATGGAC GACGGCCGCC GCAAGATGAC  
 TTACCTGCCG CTGTTTCGATG CGTCCGAAC TGAAGCGGGG GACGAAACGG  
 GCGGCACGGT GCGGATACTT TTGGGTTCGC CCGACAAGGA GATGAAGGAA  
 ATTTTCGGAAA AGGCGGCAAA AAACCTCAAC ATACAATATG TCGCACCGCA  
 CCCCCGCCAA ACCTACGGGC TTTCCGGCGT AACCACATTA AATTCGCCCT  
 ATGTCATCGA AGACTATATT TTGCGCGAGA TTAAGAAAAA CCCGCATACG  
 AGGTATGAAA TTTATACCTT TTTAGCGGC GCGGCGTTGA CGATGAAGGA  
 TTTTCCCAAT GTGCACGTTT ACGCATTGAA ACCGGCTTCC CTTCCGGAAG  
 ATTATTGGCT CAAGCCGGTG TATGCCCTGT TTACCCAATC CGGCATCCCC  
 ATTTTGACAT TTGACGATAA AAATGAACAA AACTGATCA GCGAAGAAGA

C-Myc Peptide tag sequence

His 6 Tag  
CCTGAACCAT CACCACCATC ACCACTAATG A

#### DNA Sequence of FUS01/04

ATGGAAAAAC AAAATATTGC GGTATACTT GCGCGCCAAA ACTCCAAAGG  
 ATTGCCATTA AAAAATCTCC GGAAAATGAA TGGCATATCA TTACTTGGTC  
 ATACAATTAA TGCTGCTATA TCATCAAAGT GTTTTGACCG CATAATTGTT  
 TCGACTGATG GCGGGTTAAT TGCAGAAGAA GCTAAAAATT TCGGTGTCGA  
 AGTCGTCCTA CGCCCTGCAG AGCTGGCCTC CGATACAGCC AGCTCTATTT  
 CAGGTGTAAT ACATGCTTTA GAAACAATTG GCAGTAATTC CGGCACAGTA  
 ACCCTATTAC AACCAACCAG TCCATTACGC ACAGGGGCTC ATATTCTGTA  
 AGCTTTTTCT CTATTTGATG AGAAAATAAA AGGATCCGTT GTCTCTGCAT  
 GCCCAATGGA GCATCATCCA CTAAAAACCC TGCTTCAAAT CAATAATGGC  
 GAATATGCCC CCATGCGCCA TCTAAGCGAT TTGGAGCAGC CTCGCCAACA  
 ATTACCTCAG GCATTTAGGC CTAATGGTGC AATTACATT AATGATACTG  
 CTTCACTAAT TGCAAATAAT TGTTTTTTTA TCGCTCCAAC CAACTTTAT  
 ATTATGTCTC ATCAAGACTC TATCGATATT GATACTGAGC TTGATTTACA  
 ACAGGCAGAA AACATTCTTA ATCACAAGGA AAGCGTGGC GGAATCTGT

GlyGly GlyIleLeuS

erGlyIle

EcoRI

CGGGAAT TCTGGGCTTG AAAAAGGCTT GTTTGACCGT GTTGTGTTTG

ATTGTTTTTTT GTTTCGGGAT ATTTTATACA TTTGACCGGG TAAATCATGG  
 GGAAAGGAAT GCGGTTTCCC TGCTGAAGGA CAAACTCTTC AATGAAGAGG  
 GGGAACCGGT CAATCTGATT TTCTGCTATA CCATATTGCA GATGAAGGTG  
 GCGGAAAGGA TTATGGCGCA GCATCCGGGG GAGCGGTTTT ATGTGGTGCT  
 GATGTCTGAA AACAGGAATG AAAAATACGA TTATTATTTC AAGCAGATAA  
 AGGATAAGGC GGAGCGGGCG TATTTTTTCC ACCTGCCCTA CGGTTTGAAC  
 AAATCGTTTA ATTTCAATTCC GACGATGGCG GAGCTGAAGG TAAAGTCGAT  
 GCTGCTGCCG AAAGTCAAGC GGATTTATTT GGCAAGTTTG GAAAAAGTCA  
 GCATTGCCGC CTTTTTGAGC ACTTACCCGG ATGCGGAAAT CAAAACCTTT  
 GACGACGGGA CAGGCAATTT AATTCAAAGC AGCAGCTATT TGGGCGATGA  
 GTTTTCTGTA AACGGGACGA TCAAGCGGAA TTTTGCCCGG ATGATGATCG  
 GAGATTGGAG CATCGCCAAA ACCCGTAATG CTTCCGACGA GCATTACACG  
 ATATTCAAGG GTTTGAAAAA CATTATGGAC GACGGCCGCC GCAAGATGAC  
 TTACCTGCCG CTGTTTCGATG CGTCCGAACT GAAGGCGGGG GACGAAACGG  
 GCGGCACGGT GCGGATACTT TTGGGTTCGC CCGACAAGGA GATGAAGGAA  
 ATTTCCGAAA AGGCGGCAAA AAACCTCAAC ATACAATATG TCGCACCGCA  
 CCCCCGCCAA ACCTACGGGC TTTCCGGCGT AACCACATTA AATTGCGCCT  
 ATGTCATCGA AGACTATATT TTGCGCGAGA TTAAGAAAAA CCCGCATACG  
 AGGTATGAAA TTTATACCTT TTTCAGCGGC GCGGCGTTGA CGATGAAGGA  
 TTTTCCCAAT GTGCACGTTT ACGCATTGAA ACCGGCTTCC CTTCCGGAAG  
 ATTATTGGCT CAAGCCGGTG TATGCCCTGT TTACCCAATC CGGCATCCCG

C-Myc Peptide tag sequence

ATTTTGACAT TTGACGATAA AAATGAACAA AAACTGATCA GCGAAGAAGA

His 6 Tag

CCTGAACCAT CACCACCATC ACCACTAATG A

## DNA Sequence of FUS-01

ATGGA AAAAC AAAATATTGC GGT TATACTT GCGCGCCAAA ACTCCAAAGG  
 ATTGCCATTA AAAAATCTCC GGAAAATGAA TGGCATATCA TTACTTGGTC  
 ATACAATTAA TGCTGCTATA TCATCAAAGT GTTTTGACCG CATAATTGTT  
 TCGACTGATG GCGGGTTAAT TGCAGAAGAA GCTAAAAATT TCGGTGTCGA  
 AGTCGTCCTA CGCCCTGCAG AGCTGGCCTC CGATACAGCC AGCTCTATTT  
 CAGGTGTAAT ACATGCTTTA GAAACAATTG GCAGTAATTC CGGCACAGTA  
 ACCCTATTAC AACCAACCAG TCCATTACGC ACAGGGGCTC ATATTCGTGA  
 AGCTTTTTCT CTATTTGATG AGAAAATAAA AGGATCCGTT GTCTCTGCAT  
 GCCCAATGGA GCATCATCCA CTAAAAACCC TGCTTCAAAT CAATAATGGC  
 GAATATGCCC CCATGCGCCA TCTAAGCGAT TTGGAGCAGC CTCGCCAACA  
 ATTACCTCAG GCATTTAGGC CTAATGGTGC AATTTACATT AATGATACTG  
 CTTCACTAAT TGCAAATAAT TGT TTTT TTA TCGCTCCAAC CAAACTTTAT  
 ATTATGTCTC ATCAAGACTC TATCGATATT GATACTGAGC TTGATTTACA

GlyGly

ACAGGCAGAA AACATTCTTA ATCACAAGGA AAGCGGTGGC

GlyIle

EcoRI

GGAAT TCTGGGCTTG AAAAAGGCTT GTTTGACCGT GTTGTGTTTG

ATTGTTTTTT GTTTCGGGAT ATTTTATACA TTTGACCGGG TAAATCATGG  
 GGAAAGGAAT GCGGT TTTCCC TGCTGAAGGA CAAACTCTTC AATGAAGAGG  
 GGGAAACCGGT CAATCTGATT TTCTGCTATA CCATATTGCA GATGAAGGTG  
 GCGGAAAGGA TTATGGCGCA GCATCCGGGG GAGCGGTTTT ATGTGGTGCT  
 GATGTCTGAA AACAGGAATG AAAAATACGA TTATTATTTT AAGCAGATAA  
 AGGATAAGGC GGAGCGGGCG TATTTT TCC ACCTGCCCTA CGGTTTGAAC  
 AAATCGTTTA ATTTCA TTCC GACGATGGCG GAGCTGAAGG TAAAGTCGAT  
 GCTGCTGCCG AAAGTCAAGC GGATTTATTT GGCAAGTTTG GAAAAAGTCA  
 GCATTGCCGC CTTTTTGAGC ACTTACCCGG ATGCGGAAAT CAAAACCTTT  
 GACGACGGGA CAGGCAATTT AATTCAAAGC AGCAGCTATT TGGGCGATGA  
 GTTTTCTGTA AACGGGACGA TCAAGCGGAA TTTTGCCCGG ATGATGATCG  
 GAGATTGGAG CATCGCCAAA ACCCGTAATG CTTCCGACGA GCATTACACG

ATATTCAAGG GTTTGAAAAA CATTATGGAC GACGGCCGCC GCAAGATGAC  
TTACCTGCCG CTGTTTCGATG CGTCCGAACT GAAGGCGGGG GACGAAACGG  
GCGGCACGGT GCGGATACTT TTGGGTTCGC CCGACAAGGA GATGAAGGAA  
ATTTTCGAAA AGGCGGCAAA AAACCTTCAAC ATACAATATG TCGCACCACA  
CCCCCGCAA ACCTACGGGC TTTCCGGCGT AACCACATTA AATTCGCCCT  
ATGTCATCGA AGACTATATT TTGCGCGAGA TTAAGAAAAA CCCGCATACG  
AGGTATGAAA TTTATACCTT TTCAGCGGC GCGGCGTTGA CGATGAAGGA  
TTTTCCCAAT GTGCACGTTT ACGCATTGAA ACCGGCTTCC CTTCCGGAAG  
ATTATTGGCT CAAGCCGGTG TATGCCCTGT TTACCCAATC CGGCATCCCC  
C-Myc Peptide tag sequence  
ATTTTGACAT TTGACGATAA AAATGAACAA AAACTGATCA GCGAAGAAGA

His 6 linker  
CCTGAACCAT CACCACCATC ACCACTAATG A

**FUS-01/02 PROTEIN SEQUENCE**

MEKQNIIVIL ARQNSKGLPL KNLRKMNGIS LLGHTINAAI SSKCFDRIIV  
STDGGLIAEE AKNFGVEEVL RPAELASDTA SSISGVIHAL ETIGSNSGTV  
TLLQPTSPLR TGAHIREAFS LFDEKIKGSV VSACPMEHHP LKTLLQINNG  
EYAPMRHLSD LEQPRQQLPQ AFRPNGAIYI NDTASLIANN CFFIAPTKLY  
IMSHQDSIDI DTELDLQQAE NILNHKESGG GILSHGILGL KKACLTVLCL  
IVFCFGIFYT FDRVNHGERN AVSLLKDKLF NEEGEPVNLI FCYTILQMKV  
AERIMAQHPG ERFYVVMSE NRNEKYDYYF KQIKDKAERA YFFHLPYGLN  
KSFNFIPDMA ELKVKSMMLP KVKRIYLASL EKVSIAAFSL TYPDAEIKTF  
DDGTGNLIQS SSYLGDEFSV NGTIKRNFAK MMIGDWSIAK TRNASDEHYT  
IFKGLKNIMD DGRRKMTYLP LFDASELKAG DETGGTVRIL LGSPDKEMKE  
ISEKAAKNFN IQYVAPHPRQ TYGLSGVTTL NSPYVIEDYI LREIKKNPHT  
RYEITYTFFSG AALTMKDFPN VHVYALKPAS LPEDYWLKPV YALFTQSGIP  
ILTFDDKNEQ KLISEEDLNH HHHHH

**FUS-01/04 PROTEIN SEQUENCE**

MEKQNIIVIL ARQNSKGLPL KNLRKMNGIS LLGHTINAAI SSKCFDRIIV  
STDGGLIAEE AKNFGVEEVL RPAELASDTA SSISGVIHAL ETIGSNSGTV  
TLLQPTSPLR TGAHIREAFS LFDEKIKGSV VSACPMEHHP LKTLLQINNG  
EYAPMRHLSD LEQPRQQLPQ AFRPNGAIYI NDTASLIANN CFFIAPTKLY  
IMSHQDSIDI DTELDLQQAE NILNHKESGG GILSGILGL KKACLTVLCL  
IVFCFGIFYT FDRVNHGERN AVSLLKDKLF NEEGEPVNLI FCYTILQMKV  
AERIMAQHPG ERFYVVMSE NRNEKYDYYF KQIKDKAERA YFFHLPYGLN  
KSFNFIPDMA ELKVKSMMLP KVKRIYLASL EKVSIAAFSL TYPDAEIKTF  
DDGTGNLIQS SSYLGDEFSV NGTIKRNFAK MMIGDWSIAK TRNASDEHYT  
IFKGLKNIMD DGRRKMTYLP LFDASELKAG DETGGTVRIL LGSPDKEMKE  
ISEKAAKNFN IQYVAPHPRQ TYGLSGVTTL NSPYVIEDYI LREIKKNPHT  
RYEITYTFFSG AALTMKDFPN VHVYALKPAS LPEDYWLKPV YALFTQSGIP  
ILTFDDKNEQ KLISEEDLNH HHHHH

## FUS-01 PROTEIN SEQUENCE

MEKQNIIVIL ARQNSKGLPL KNLRKMNGIS LLGHTINAAL SSKCFDRIIV  
STDGGLIAEE AKNFGVEEVL RPAELASDTA SSISGVIHAL ETIGSNSGTV  
TLLQPTSPLR TGAHIREAFS LFDEKIKGSV VSACPMEHHP LKTLLQINNG  
EYAPMRHLSL LEQPRQQLPQ AFRPNGAIYI NDTASLIANN CFFIAPTPLY  
IMSHQDSIDI DTELDLQQAQ NILNHKESGG GILGL KKACLTVLCL  
IVFCFGIFYT FDRVNHGERN AVSLLKDKLF NEEGEPVNLI FCYTILQMKV  
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KSFNFIPYMA ELKVKSMLLP KVKRIYLAAL EKVSIAAFSL TYPDAEIKTF  
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ISEKAAKNFN IQYVAPHPRQ TYGLSGVTTL NSPYVIEDYI LREIKKNPHT  
RYEITYTFFSG AALTMKDFPN VHVYALKPAS LPEDYWLKPV YALFTQSGIP  
ILTFDDKNEQ KLISEEDLNH HHHHH